000 000 000 000 000 000				PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY YYY YYY YYY YYY YYY YYY YYY YY
UUU UUU UUU UUU UUU		EEE EEEEEEEEEEE EEEEEEEEEEE EEE EEE	111 111 111 111 111 111	PPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	444 444 444 444 444 444 444
UUU	UUU		††† ††† ††† ††† ††† †††	PPP PPP PPP PPP PPP PPP	\$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	YYY YYY YYY YYY YYY YYY

\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$

\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	AAAAAA AAAAAA	11111111111
SS SS SS SSSSS SSSSS SS SS SS SS	AA	TT TT TT TT TT TT TT TT
\$	AA AA AA	†† †† ††
LL LL		\$\$\$\$\$\$\$\$\$ \$
		\$\$ \$\$ \$\$ \$\$ \$\$\$ \$\$\$ \$\$\$ \$\$ \$\$ \$\$ \$\$ \$\$
		\$\$ \$\$ \$\$ \$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$

SATSSS44 Table of	contents	SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00	Page	0
	54 91 118 185 255 348 454	DECLARATIONS CONDITION TABLES TM SETUP, TM CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM CONDS VERIFY VFY_CLEANUP		

SA

.TITLE SATSSS44 SATS SYSTEM SERVICE TESTS SSETPRN (SUCC S.C.)

SA

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS44 TO TEST SUCCESSFUL OPERATION OF THE \$SETPRN SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE: NEEDS CMKRNL PRIVILEGE.
DYNAMICALLY ACQUIRES OTHER PRIVILEGES. AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: JUN. 1977

MODIFIED BY:

. : VERSION

SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1 (1)

.SBTTL DECLARATIONS 55555556666666668 INCLUDE FILES: SPRVDEF SPHDDEF MACROS:

: PRIVILEGE BIT DEFINITIONS : PROCESS HEADER OFFSETS

OWN STORAGE:

EQUATED SYMBOLS:

SA

```
SATS SYSTEM SERVICE TESTS SSETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1
          00000000
0000
0009
0019
0039
                                     PSECT RODATA, RD, NOWRT, NOEXE, LONG
TEST_MOD_NAME:: STRING C. <SATSSS44> : TEST MODULE NAME
TEST_MOD_NAME_D: STRING I. <SATSSS44> : TEST MODULE NAME DESCRIPTOR
MSG1_INP_CTL: STRING I. < SSSPN!4ZW: CONDITIONS:>
                                                                                                                  FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                      MSG3_ERR_CTL::
                                                                   STRING I, < *SSSPN!4ZW:
                                                                                                                  FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR PREVIOUS PROCESS NAME STRING DESCRIPTOR (USE PID TO MAKE PRCNAM UNIQUE) PROCESS NAME STRING DESCRIPTOR (LENGTH 1)
                  0051
0055
0059
0059
0061
0065
0069
PREVNAME:
                                                                    . LONG
                                                                   . ADDRESS THISPID
                                78
79
80
81
82
83
84
                                      CHAR1:
                                                                    .LONG 1
                                                                   ADDRESS PROCNAME
                                                                                                                  PROCESS NAME STRING DESCRIPTOR (LENGTH 7)
                                      CHAR7:
                                                                   ADDRESS PROCNAME
LONG 15
ADDRESS PROCNAME
                                                                                                                  PROCESS NAME STRING DESCRIPTOR (LENGTH 15)
```

CHAR15:

SAI ROI SA

PSI

--

SA

Phi ---In Col Pai Syl Pai Syl Psi Cri Asi

The 290 The 500 34

Ma ---\$-TO 60

Th

MA

SATSSS44 V04-000

SATS SYSTEM SERVICE TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 Page DECLARATIONS Page (1)

00000000 00000008 0000 00000000 0008 0000001B 000C 86 .PSECT RWDATA, RD, WRT, NOEXE, LONG
87 PRIVMASK: .BLKQ 1
.LONG 0
.BLKB 15 : ADDR OF PRIVILEGE MASK (IN PHD) : PROCESS ID FOR THIS PROCESS : PROCESS NAME FOR THIS PROCESS

(1)

SATSSS44 V04-000

```
SATS SYSTEM SERVICE TESTS SSETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 CONDITION TABLES 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1
                                      .SBTTL CONDITION TABLES
                      **** CONDITION TABLES FOR SETPRN SYSTEM SERVICE *****
                                                COND
00000059°
00000061°
00000069°
                                                      . ADDRESS
                                                                      CHAR1
                                                      . ADDRESS
                                                                      CHAR7
                                                      . ADDRESS
                                                                      CHAR15
                                                      . ADDRESS
                                                 2.NOTARG. < PROCESS NAME EXISTENCE > . - < NAME PREVIOUSLY EXISTED > . - < NAME DID NOT EXIST PREVIOUSLY > . -
                                      COND
                                                 3. NULL
                                      COND
                                      COND
                                                 4. NULL
                                      COND
                                                 5. NULL
        00000000
                                       .PSECT SATSSS44, RD, WRT, EXE
```

```
SATSSS44
V04-000
```

```
SATS SYSTEM SERVICE TESTS SSETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1
                                                                                     .SBTTL TM_SETUP, TM_CLEANUP
                                                                       FUNCTIONAL DESCRIPTION:
                                                                          TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF TEST MODULE EXECUTION.
                                                     CALLING SEQUENCE:
                                                                                    BSBW TM_SETUP
                                                                                                               BSBW TM_CLEANUP
                                                                          INPUT PARAMETERS:
                                                                                     NONE
                                                                           IMPLICIT INPUTS:
                                                                                     NONE
                                                                 138
                                                                          OUTPUT PARAMETERS:
                                                                 140
141
142
143
144
                                                                                     NONE
                                                                           IMPLICIT OUTPUTS:
                                                                                     TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
                                                                                                       ALL PRIVILEGES ACQUIRED.
                                                                          COMPLETION CODES:
                                                                                    EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                                                 150
151
152
153
154
155
156
157
                                                                          SIDE EFFECTS:
                                                                                     SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                                     ŎŎŎŎ
                                                     0000
0000
0000
0002
0004
0008
0008
0008
                                                                       TM_SETUP::
                                                                 160
161
162
163
164
165
167
168
                                                                                                                                             INITIALIZE .. CONDITION
                                                                                     CLRL
                                              044440E0
                                                                                                                                             .... TABLE
                                                                                     CLRL
                                                                                                  R5
                                                                                     CLRL
                                                                                     CLRL
                                                                                                  REGISTERS
MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC_TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS.#0.#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                                                                                                            REGISTERS
                                                                                     BSBW
00000000 EF
                                                                                     MOVAL
                                                                                     INSV
                                                                                                 TO.5% KRNL : KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD GET PRIVMSK (R9) PRIVMSK ; GET PRIV MASK ADDRESS FROM.5% : BACK TO USER MODE GET ALL PRIVILEGES
                                                                 169
170
171
172
173
                                                                                     MODE
               59 00000000 ° 9F 69
                                              DO
                                                                                     MOVL
                                                                                     MOVAL
                                                                                     MODE
                                                                                     PRIV
```

	5	ATS	SYSTEM TUP, T	SERVICE M_CLEANUP	TESTS SS	ETPRN (SUCC	16-SEP-1984 5-SEP-1984	00:5	5:01 1:36	VAX/VMS CUETPSY	Macro .SRCJSA	V04-00 TSSS44.1	MAR;1	Page	(1)	
FE	08'	05 30 05	0077 0084 0082 00C1 00EF 00F6 0124 0125 0125	174 175 176 177 178 179 180 181 TM_C 182 183	SSETP SS CH SWAKE SS CH SHIBE SS CH RSB LEANUP::	RN S TEST MI ECR NORMAL S THISPID ECK NORMAL R S ECK NORMAL MOD_MSG_			CHEC CHEC UNDO CHEC RETU	PROCESS K STATUS 'MY'' PID K NORMAL WAKE K NORMAL JRN TO MA	CODE R FOR LA RETURN RETURN IN ROUT	INE	FROM	SETPRN		

SATSSS44 V04-000

```
.SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
```

FUNCTIONAL DESCRIPTION:

CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.

CALLING SEQUENCE:

BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5

INPUT PARAMETERS:

CONFLICT = 0

IMPLICIT INPUTS:

R2,3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

OUTPUT PARAMETERS:

CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.

IMPLICIT OUTPUTS:

R2.3.4.5.6 PRESERVED

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

05 0129 235 012A 236 05 012A 237 012B 238 05 012B 239

COND1::

RSB
COND1_CLEANUP::
RSB

COND2::

COND2_CLEANUP::

RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

: RETURN TO MAIN ROUTINE

(1)

05	012D 012D	242	COND3::		RETURN	TO	MAIN	ROUTINE
	012E	244	COND3_CLEANUP::					
05	012E	245	COND4::	;	RETURN	TO	MAIN	ROUTINE
05	012F	247	COND4_CLEANUP::	•	RETURN	TO	MAIN	ROUTINE
05	0130	249	COND5::	*	RETURN	TO	MAIN	ROUTINE
05	0131	251	COND5_CLEANUP::	*	RETURN	TO	MAIN	ROUTINE
05	0132	253	RSB	:	RETURN	TO	MAIN	ROUTINE

```
SATSSS44
V04-000
```

00BF

EF 0000001B'EF 00000037'EF42 00000000'EF 00

00000000'EF

```
SATS SYSTEM SERVICE TESTS $SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 Page 10 FORM_CONDS 5-SEP-1984 04:31:36 [UETPSY_SRC]SATSSS44_MAR;1 (1)
```

```
.SBTTL FORM_CONDS
                            FUNCTIONAL DESCRIPTION:
                                                   FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                              THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                            CALLING SEQUENCE:
                                      BSBW FORM_CONDS
                            INPUT PARAMETERS:
                                      NONE
                            IMPLICIT INPUTS:
                                      R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5:
                                                   CONDX T - TITLE TEXT FOR CONDX TABLE
CONDX TAB - ELEMENT TEXT FOR CONDX TABLE
CONDX C - CONTEXT OF THE CONDX TABLE
CONDX E - DATA ELEMENTS OF THE CONDX TABLE
                  OUTPUT PARAMETERS:
                                      NONE
                            IMPLICIT OUTPUTS:
                                      NONE
                            COMPLETION CODES:
                                      NONE
                            SIDE EFFECTS:
                                      NONE
                         FORM_CONDS::
                                      SFAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                                                                                               FORMAT CONDITIONS HEADER MSG
                                                                                               ... AND PRINT IT
IS CONDITION 1 NULL ?
                                                   OUTPUT_MSG
#COND1_C,#NULL
                                      BSBW
                                       CMPB
12
         158
15A
15D
15D
168
174
                                                                                               NO -- CONTINUE
                                      BNEQU
                                                                                               YES -- SUBROUTINE IS FINISHED
                                      BRW
                                                    FORM_CONDSX
                         105:
                                      MOVAL CONDITANS A SAVE ADDRESS OF CONDITION 1 TITLE FOR MOVE CONDITANS B SAVE ADDR OF CONDITION 1 CURR TEXT ELT FOR MOVB #CONDIT C. MSG CTXT SAVE CONDITION 1 CONTEXT FOR FAO MOV_VAL CONDIT. CONDITERS, MSG_DATA1; GIVE COND 1 DATA VALUE TO FAO
                                                                                               SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO SAVE CONDITION 1 CONTEXT FOR FAO
```

SATSSS44 V04-000	SATS SY FORM_CO	YSTEM SERVICE	D 9 E TESTS \$SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 Page 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1	11 (1)
14 00 03 0096	91 01 12 01 31 01	17B 312 17E 313 181 314 183 315 186 316 201	BSBW WRITE MSG2 : FORMAT AND WRITE CONDITION 1 MSG CMPB	
00000000'EF 0000009E'EF 00000000'EF 000000B6'EF43 00000000'EF 00 14 14 03 006D	90 01 90 01 30 01 91 01 12 01 31 01	1191 318 1190 319	MOVAL COND2_T.MSG_A MOVL COND2_TAB[R3],MSG_B MOVB #COND2_C.MSG_CTXT MOV VAL COND2_C.COND2_E[R3],MSG_DATA1: GIVE COND 2 CURR TEXT ELT FOR FACE BSBU WRITE_MSG2 CMPB #COND3_C.#NULL BNEQU 30\$ NO CONTINUE BRW FORM_CONDSX SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE FORMAT AND WRITE CONDITION 2 MSG IS CONDITION 3 NULL? NO CONTINUE SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE FORMAT AND WRITE CONDITION 2 MSG SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE FORMAT AND WRITE CONDITION 2 MSG SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE FORMAT AND WRITE CONDITION 2 MSG SAVE ADDRESS OF CONDITION 2 TITLE FOR FACE SAVE ADDRESS OF	AO
00000000'EF 000000F4'EF44 00000000'EF 14 14 FE30' 14 47 00000000'EF 000000F5'EF 00000000'EF 000000F5'EF45 00000000'EF 14	DE 01 90 01 30 01 91 01 13 01 DE 01 DO 01	1A4 320 1A4 321 1A7 322 1AA 323 1AC 324 1AF 326 1AF 326 1AF 328 1CD 329 1CD 330 1DO 331 1DO 331 1DO 331	MOVAL COND3_T.MSG_A : SAVE ADDRESS OF CONDITION 3 TITLE FOR F. MOVL COND3_TABER4].MSG_B : SAVE ADDR OF COND 3 CURR TEXT ELT FOR F. MOVB #COND3_C.MSG_CTXT : SAVE CONDITION 3 CONTEXT FOR FAO MOV_VAL COND3_C.COND3_EER4].MSG_DATA1 : GIVE COND 3 DATA VALUE TO FAO BSBG URITE_MSG2 : FORMAT AND WRITE CONDITION 3 MSG CMPB #COND4_C.#NULL : IS CONDITION 4 NULL? BEQLU FORM_CONDSX : YES SUBRUUTINE IS FINISHED	AO AO
00000000°EF 000000F6°EF 00000000°EF 000000F6°EF46 00000000°EF 14	30 01 91 01 13 01 DE 01 D0 02 90 02 30 02	1E0 334 1EC 335 1F3 336 1F3 337 1F6 338 1F9 339 1FB 340 1206 341 1212 342 1219 343 1219 344 1210 345 FOR	MOVE COND4 TABERS A SAVE ADDRESS OF CONDITION 4 TITLE FOR F. MOVB #COND4 C.MSG CTXT SAVE CONDITION 4 CONTEXT FOR FAO MOV VAL COND4 C.COND4 EERS], MSG DATA1; GIVE COND 4 DATA VALUE TO FAO BSBO WRITE MSG2; FORMAT AND WRITE CONDITION 4 MSG CMPB #COND5 C.#NULL SCONDITION 5 NULL 7 BEQLU FORM CONDSX YES SUBROUTINE IS FINISHED SAVE ADDRESS OF CONDITION 5 TITLE FOR F. MOVE COND5 TABERS], MSG B SAVE ADDRESS OF CONDITION 5 TITLE FOR F. MOVB #COND5 C.MSG CTXT SAVE CONDITION 5 CONTEXT FOR FAO MOV VAL COND5 C.COND5 EER6], MSG DATA1; GIVE COND 5 DATA VALUE TO FAO BSBO WRITE MSG2; FORMAT AND WRITE CONDITION 5 MSG RM_CONDSX: RSB : RETURN TO CALLER	

SA

.SBTTL VERIFY

: FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2.3.4.5.6 FOR COND TABLES 1.2.3.4.5. RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$SETPRN). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5: CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

FOR CONDX_E.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

555558901234567890 555555566656667890

384 385 386 387

SATSSS44 V04-000	SATS SYSTE VERIFY	M SERVICE TESTS	\$SETPRN (SUCC 16-SEP-1984 5-SEP-1984	00:55:01 VAX/VMS Macro V04-00 Page 13 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1 (1
00000000°EF 03 FF0B 00000000°EF 53 30	95 0210 0210 0210 0210 0210 0210 02210 0223 0223	411 BE BS 412 BS 413 5\$: 414 MO 415 TS 416 BN 417 \$S SS	BW FORM_CONDS VW TESTNUM, PROCNAME TL R3 10\$ 10\$ ETPRN_S PREVNAME CHECK NORMAL	SHOULD CONDITIONS BE PRINTED? NO CONTINUE YES FMT & PRINT ALL CONDS FOR THIS T.C MAKE PROCESS NAME UNIQUE FOR EACH T.C. FIRST CONDITION 2 ELEMENT? NO GO PROCESS 2ND ELEMENT YES ESTABLISH A "PREVIOUS" NAME AND CHECK COMPLETION
58 0000008E'EF42	0274 0274 0270 0270 02AB 02B3 02B3	420 10\$: 421 \$S 422 \$S 423 20\$: 424 MO	ETPRN S CHECK NORMAL VL COND1_E[R2],R8	: CONTINUE : DELETE ANY POSSIBLE NAME : CHECK IT : GET PRONAM ADDRESS OUT OF TABLE S THE SUBJECT OF THIS TEST CASE ******
00000000°8F 50 03 0061	0283 0283 0280 12 0203 31 0205 0208	428 \$5	ETPRN_S (R8) IPL R0,#SS\$_NORMAL EQU 23\$ W 27\$: ISSUE SUBJECT SETPRN : CODE RECEIVED = CODE EXPECTED ? : NO GO PROCESS ERROR : YES CONTINUE
00000000'EF 00000000'8F 50	DO 02C8 DO 02D3 02DA	433 MO 434 MO 435 ER	VL #SS\$ NORMAL, EXPV VL RO, RECV R_EXIT LONG, < INCORRECT ST/	: LOAD UP EXPECTED AND RECEIVED VALUES, THEN EXIT
58 78	05 0329 13 0328 0320 0320	438 BE 439 : * 440 : * IF FOL		: WAS PROCESS NAME SPECIFIED ? : NG GO DO SOME CHECKING
3D	032D 032D 0338	444 SS 445 \$S	AS ESTABLISHED CORRECTLY. ESUME S PRCNAM=(R8) CHECK NORMAL USPND S THISPID CHECK NORMAL	RESUME USING PROCESS NAME AND CHECK RETURN SUSPND THIS PROCESS USING PID CHECK RETURN AND EXIT
	0375 0375 03A5 03A5 03B4 03E2 05 03E2	448 40\$: 449 \$W 450 \$S 451 VERIFYX: 452 RS	AKE S PRCNAM=PREVNAME CHECK NONEXPR	: PRCNAM SHOULD NOT EXIST : CHECK THAT IT DOESM'T : RETURN TO CALLER

SA

```
FUNCTIONAL DESCRIPTION:
```

VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROP IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR_EXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.

CALLING SEQUENCE:

BSBW VFY_CLEANUP

.SBTTL VFY_CLEANUP

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5 :

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

NONE

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

VFY_CLEANUP:: RSB

: RETURN TO CALLER

```
SATS SYSTEM SERVICE TESTS $SETPRN (SUCC 16-SEP-1984 00:55:01 VAX/VMS Macro V04-00 Page 5-SEP-1984 04:31:36 [UETPSY.SRC]SATSSS44.MAR;1
 SATSSS44
 Symbol table
                                                                                                             = 000002E4 R
= 0000002A
= 00000017
= 00000000
$$$$
$$$CHARS
$$$CHARS1
$$$CHARS2
$$$CHARS3
                                                                                                                                                                                                              FORM_CONDS
FORM_CONDSX
LONG
                                                                                                                                                                                                                                                                                                                           00000133 RG
0000021C R
= 00000004 G
                                                                                                                                                                                                                                                                                                                                                                                       04
                                                                                                                                                                                                            LONG
MOD_MSG_CODE
MOD_MSG_PRINT
MSGT_INP_CTL
MSG3_ERR_CTL
MSG_A
MSG_B
MSG_CTXT
NOTARG
                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                                   *******
 SSSCHARS4
SSSCHARS5
                                                                                                              = 00000000
= 000000001
= 00000001
                                                                                                                                                                                                                                                                                                                                   00000019 R
00000039 RG
$$$CHARSS
$$$COND_A
$$$STRINGS
$$$STRINGS2
$$T2
BYTE
                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                               = 00000005
                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                           = 00000000
= 00000014
                                                                                                              = 00000004
                                                                                                                                                                                                            NULL
OUTPUT_MSG
                                                                                                               = 00000001
                                                                                                                                                        G
                                                                                                                                                                                                                                                                                                                                                                                       04
 CFLAG
                                                                                                                      ******
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                     00000059 R
00000069 R
00000061 R
                                                                                                                                                                                                              PCV
 CHAR1
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                                                                                                              PHDSQ PRIVMSK
PREVNAME
                                                                                                                                                                                                                                                                                                                           = 00000000
00000051 R
00000000 R
 CHAR15
                                                                                                                                                                                                                                                                                                                                                                                        02
 CHAR7
                                                                                                                     ******* X
                                                                                                                                                                                                               PRIVMASK
  CHMRTN
                                                                                                                                                                                                            PRIV ARGS
PROCESS ERR
PROCNAME
 CHM CONT
                                                                                                                                                                                                                                                                                                                            = 00000002
                                                                                                                                                                                                                                                                                                                                                                                        04
                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                               = 00000129 RG
                                                                                                                                                                                                                                                                                                                            = 00000000 R
CONDT
CONDT C
CONDT CLEANUP
CONDT E
CONDT T
CONDT TAB
CONDZ C
CONDZ C
CONDZ CLEANUP
CONDZ E
CONDZ H
CONDZ T
CONDZ T
CONDZ TAB
CONDZ TAB
                                                                                                                                                                                                               QUAD
                                                                                                                     0000012A RG
0000008E R
00000036 RG
                                                                                                                                                                                                               RECV
                                                                                                                                                                                                                                                                                                                                    *****
                                                                                                                                                                                                             REST_REGS
SAVE_REGS
SS$_NONEXPR
SS$_NORMAL
SUCCESS
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                      0000001B R
00000037 R
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                               = 00000000 RG
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                                                                                                               SYS$CMKRNL
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                     0000012C RG
000000F4 R
                                                                                                                                                                                                               SYS$FAO
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                                                                                                               SYS$HIBER
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                      000000B5 RG
                                                                                                                                                                                                               SYS$RESUME
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                     0000009E R
000000B6 R
                                                                                                                                                                                                               SYS$SETPRN
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                                                                                                               SYS$SETPRV
                                                                                                                                                                                                                                                                                                                                    ******
                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                              0000012D RG
= 00000014
                                                                                                                                                                                                               SYS$SUSPND
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                                                                                                                                                                                                                                                                       GX
 COND3
                                                                                                                                                                                                               SYS$WAKE
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                                                                                                                                                                                                                                                                                       GX
COND3_CLEANUP
COND3_H
COND3_T
COND3_TAB
                                                                                                                     0000012E RG
000000F4 RG
                                                                                                                                                                                                               TESTNUM
                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                              TEST_MOD_NAME_D
TEST_MOD_SUCC
THISPID
                                                                                                                                                                                                                                                                                                                                   00000000 RG
00000009 R
                                                                                                                      000000F4 R
                                                                                                                      000000F4 R
                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                                                                                                                                                                                                                                   00000008 R
                                                                                                               0000012F RG
= 00000014
  COND4
COND4 C
COND4 CLEANUP
COND4 H
COND4 T
COND5 C
COND5 C
COND5 C
COND5 CLEANUP
COND5 T
CO
                                                                                                                                                                                                              TMD ADDR
TM_CLEANUP
TM_SETUP
VERIFY
                                                                                                                                                                                                                                                                                                                                    *******
                                                                                                             = 00000014
00000130 RG
000000F5 RG
000000F5 R
00000131 RG
= 00000014
00000132 RG
000000F6 RG
000000F6 R
                                                                                                                                                                                                                                                                                                                           00000125 RG
00000000 RG
0000021D RG
000003E2 R
000003E3 RG
= 00000002 G
                                                                                                                                                                                                               VERIFYX
                                                                                                                                                                                                              WORD CLEANUP
                                                                                                                                                                                                               WRITE_MSG2
                                                                                                                       ******
                                                                                                                = 00000010
 DESC
  EFLAG
  EXPV
 FAO_DESC
FAO_LEN
                                                                                                                      ******
```

! Psect synopsis !

PSECT name	Allocation	PSECT No. A	Attributes			
*ABS . \$ABS\$ RODATA RWDATA SATSSS44	00000000 (0.) 00000000 (0.) 00000071 (113.) 000000F7 (247.) 000003E4 (996.)	00 (0.) N 01 (1.) N 02 (2.) N 03 (3.) N 04 (4.) N	NOPIC USR CON	ABS LCL NOSHR ABS LCL NOSHR REL LCL NOSHR REL LCL NOSHR REL LCL NOSHR	NOEXE RD	NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC LONG WRT NOVEC LONG WRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.32
Command processing Pass 1	136 232	00:00:05.75	00:00:13.47
Symbol table sort	105	00:00:00.45 00:00:01.57	00:00:00.99
Symbol table output Psect synopsis output	13	00:00:00.08	00:00:00.08
Cross-reference output Assembler run totals	519	00:00:00.00	00:00:00.00

The working set limit was 1200 pages.
29938 bytes (59 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 299 non-local and 34 local symbols.
508 source lines were read in Pass 1, producing 23 object records in Pass 2.
34 pages of virtual memory were used to define 25 macros.

! Macro library statistics !

Macro Library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
\$255\$DUA28:[SYSLIB]STARLET.MLB:2	13
TOTALS (all libraries)	22

605 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS44/OBJ=OBJ\$:SATSSS44 MSRC\$:SATSSS44/UPDATE=(ENH\$:SATSSS44)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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